Hurricane Ernesto - Projected Damage Area

Landfall Expected In About **30** Hours

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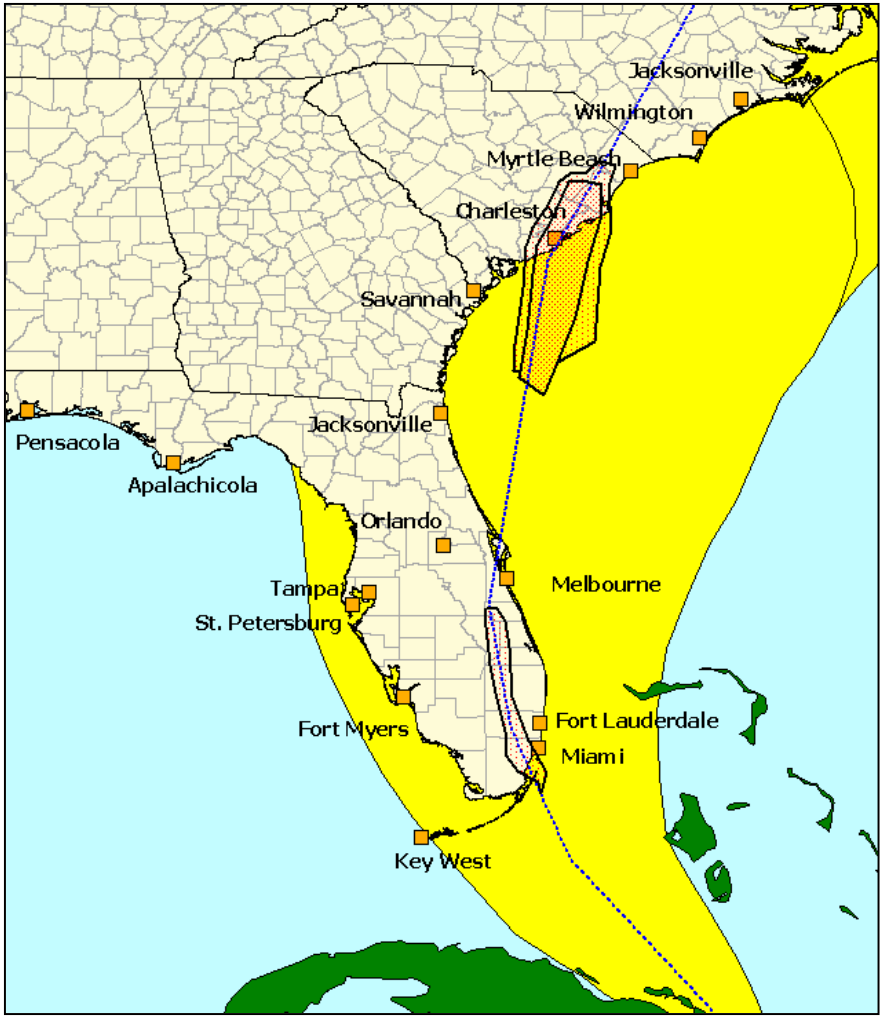


Post Landfall Projected Damage Area

This model is based on Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC.

Forecast Track

Cat 0-type damage
Cat 1-type damage

Information provided on this page displays Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC. These projections are based on information from the NHC ***(1700 EDT 08/28/2006)*** forecast.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Projected Damage

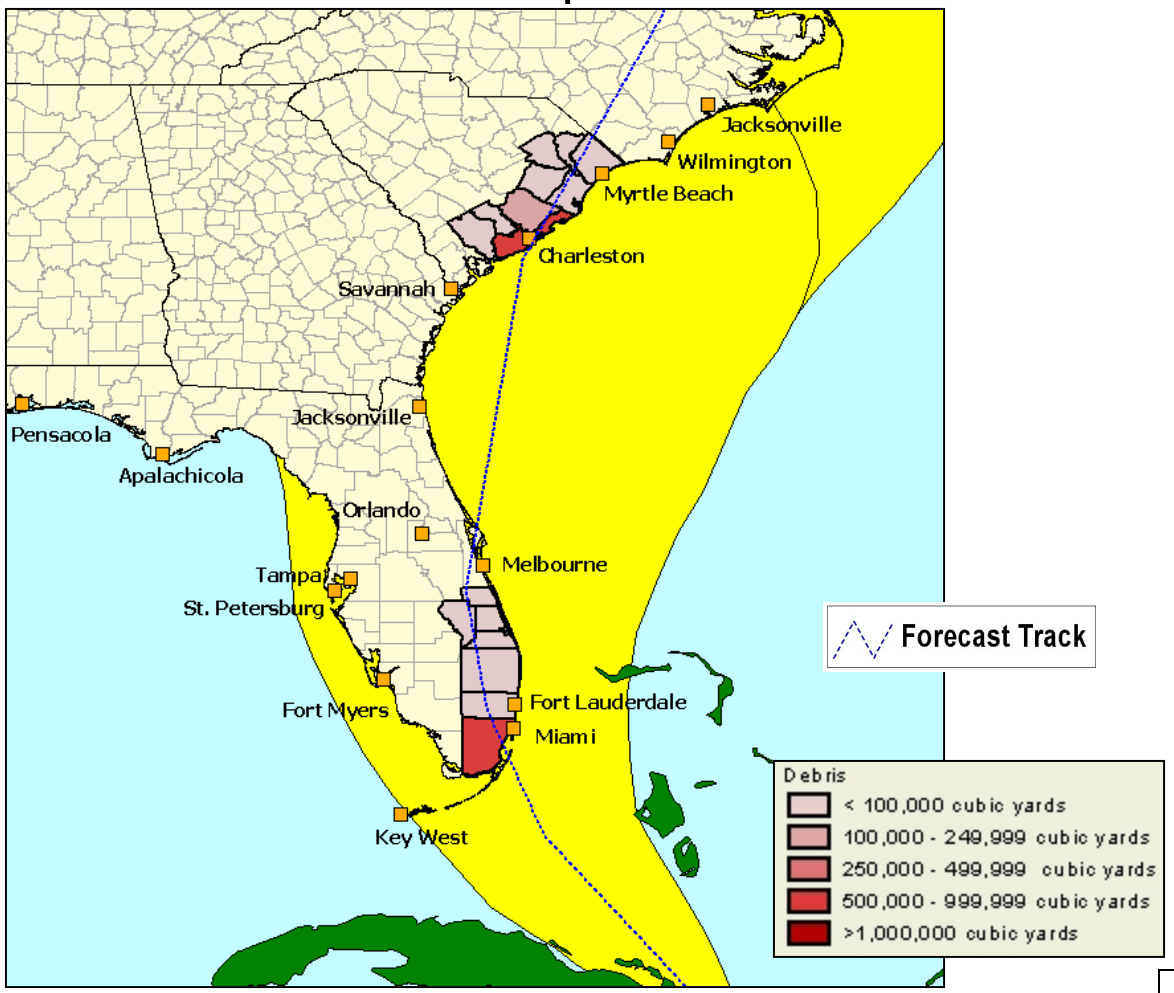
Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Debris Model

Landfall Expected In About **30** Hours

For Official Use Only!



Post Landfall Debris Model Results

Florida – 1,089,000 yd^3
South Carolina – 901,000 yd^3

Model results per county on following page

This model is based on Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC.

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US Army Corps of Engineers

Hurricane Ernesto Debris Model

Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Debris Model

Landfall Expected In About **30** Hours

For Official Use Only!

STATE	YARDS PER STATE	COUNTY	YARDS PER COUNTY
Florida			
		Broward	85,000
		Dade	967,000
		Indian River	1,000
		Martin	2,000
		Okeechobee	14,000
		Palm Beach	18,000
		St Lucie	2,000
Florida	1,089,000		
South Carolina			
		Berkeley	138,000
		Charleston	626,000
		Colleton	1,000
		Dorchester	34,000
		Florence	1,000
		Georgetown	75,000
		Horry	3,000
		Marion	1,000
		Williamsburg	22,000
South Carolina	901,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds.

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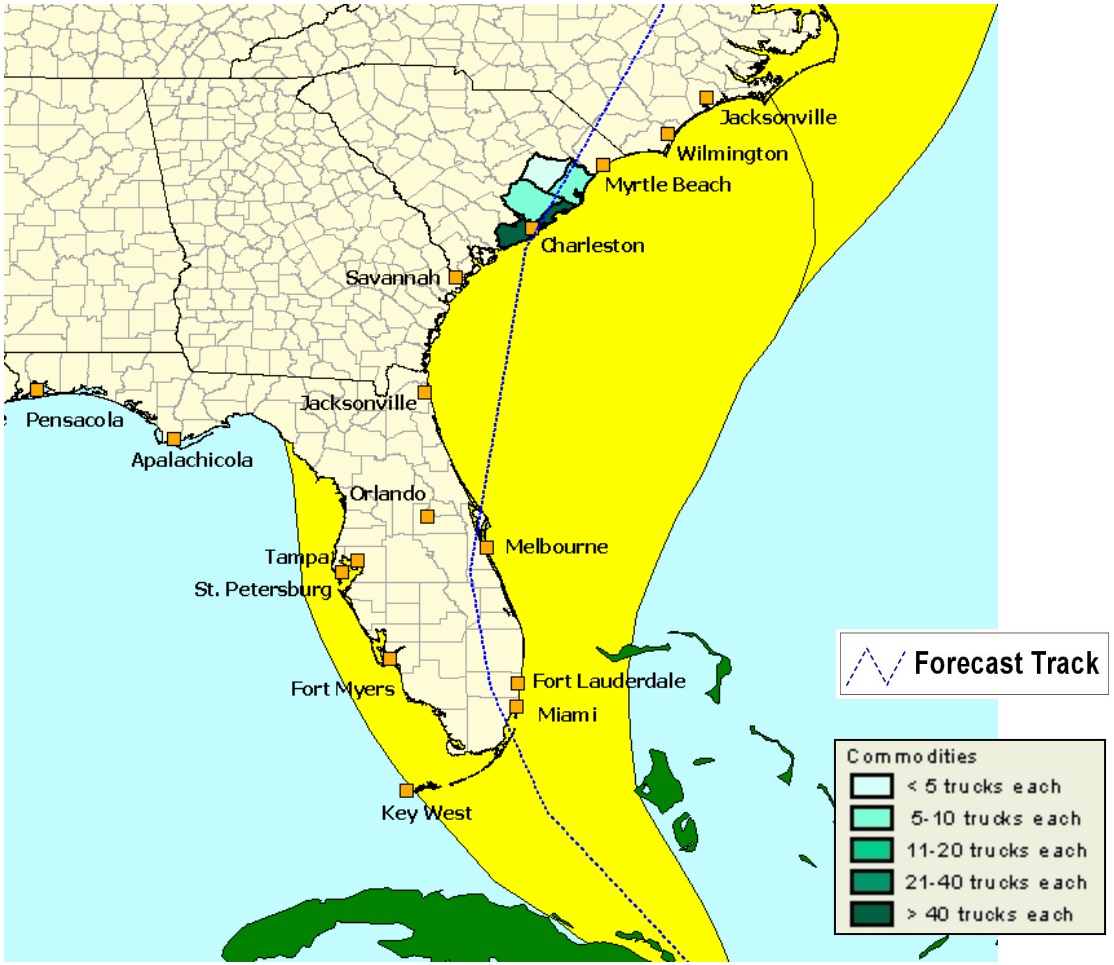
Hurricane Ernesto Commodities Model

Landfall Expected In About **30** Hours

For Official Use Only!



Post Landfall Ice/Water Model Results

Day One/ Day Two/ Day Three

South Carolina – 20/20/20

Model results per county on following page

This model is based on Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC.

Information provided on this page displays Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC. These projections are based on information from the NHC ***(1700 EDT 08/28/2006)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day and 3 liters of water per person per day) and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Commodities Model

Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Commodities Model

Landfall Expected In About **30** Hours

For Official Use Only!

STATE	TRUCKLOADS	COUNTY	TRUCKLOADS PER COUNTY
South Carolina			
		Berkeley	3
		Charleston	14
		Georgetown	2
		Williamsburg	1
TOTAL	20		

The amount of commodities forecasted is based on Mission Guide Book requirements (8 pounds of ice per person per day and 3 liters of water per person per day) and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system. The assumption in this scenario is that 25% of the resident population affected by **Ernesto hurricane force winds** will have power outage in this area will cause a need for water.

Details about this model may be obtained at **https://englink.usace.army.mil**

or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Commodities Model

Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Population Model

Landfall Expected In About **30** Hours

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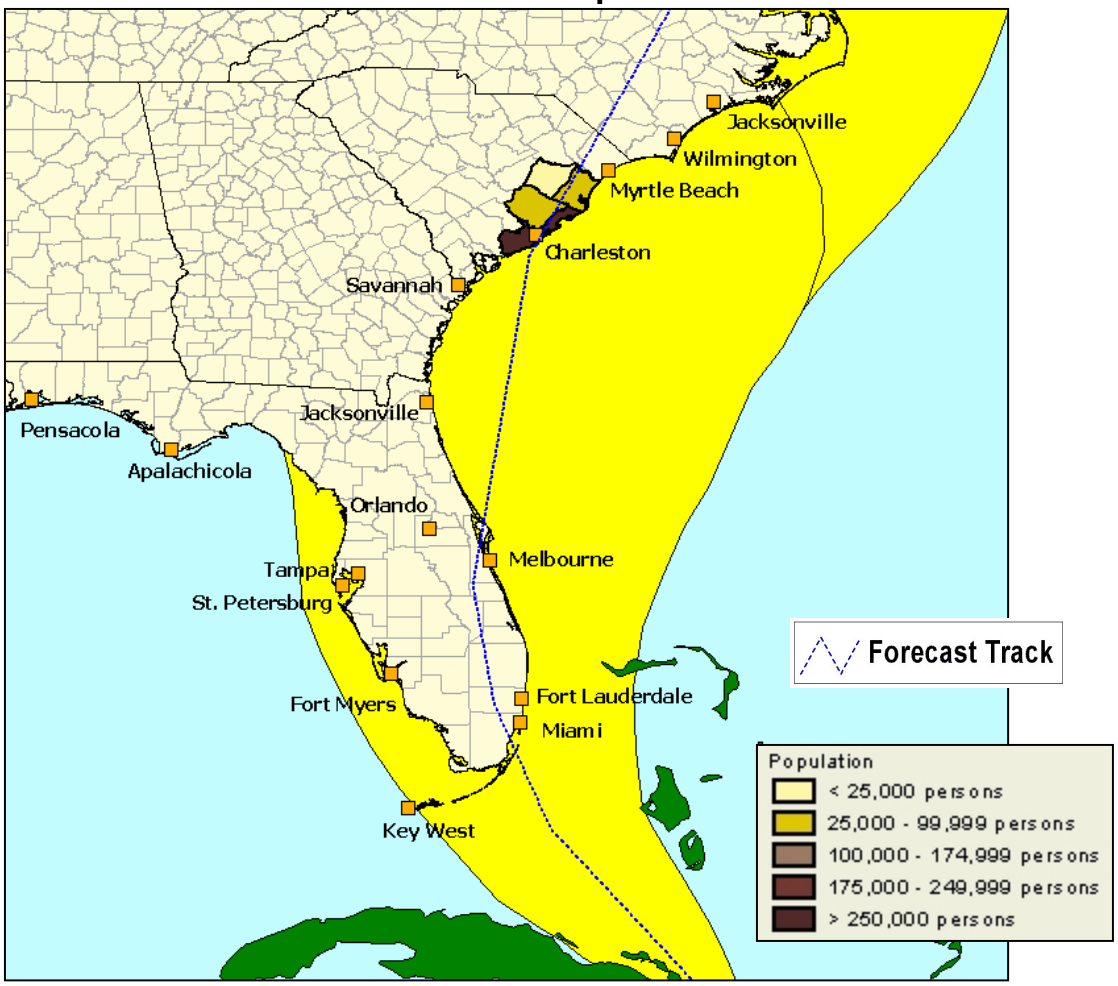


Post Landfall Population Model Results

South Carolina – 350,000 persons

Model results per county on following page

This model is based on Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC.

Information provided on this page displays Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC. These projections are based on information from the NHC ***(1700 EDT 08/28/2006)*** forecast. The number of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Population Model

Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Population Model

Landfall Expected In About **30** Hours

For Official Use Only!

STATE	POPULATION	COUNTY	POPULATION PER COUNTY
South Carolina			
		Berkeley	41,000
		Charleston	274,000
		Georgetown	30,000
		Williamsburg	5,000
TOTAL	350,000		

The number of persons estimated to be within hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Population Model

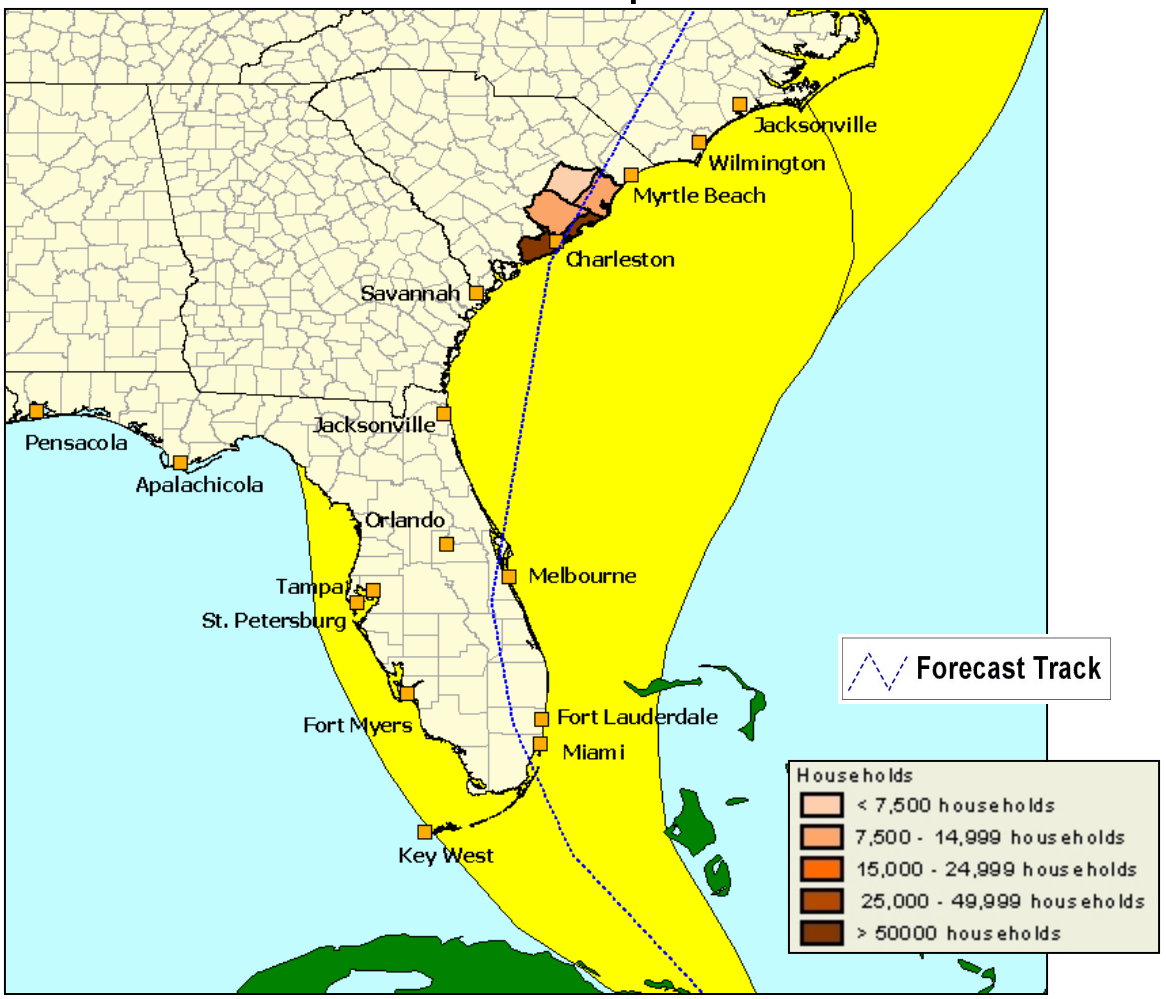
Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Households Model

Landfall Expected In About **30** Hours

For Official Use Only!



Post Landfall Households Model Results

South Carolina – 137,000 households

Model results per county on following page

This model is based on Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC.

Information provided on this page displays Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC. These projections are based on information from the NHC ***(1700 EDT 08/28/2006)*** forecast. The number of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2005 values).

Details about this model may be obtained at **https://englink.usace.army.mil** or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Households Model

Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Households Model

Landfall Expected In About **30** Hours

For Official Use Only!

STATE	HOUSEHOLDS	COUNTY	HOUSEHOLDS PER COUNTY
South Carolina			
		Berkeley	14,000
		Charleston	110,000
		Georgetown	11,000
		Williamsburg	2,000
TOTAL	137,000		

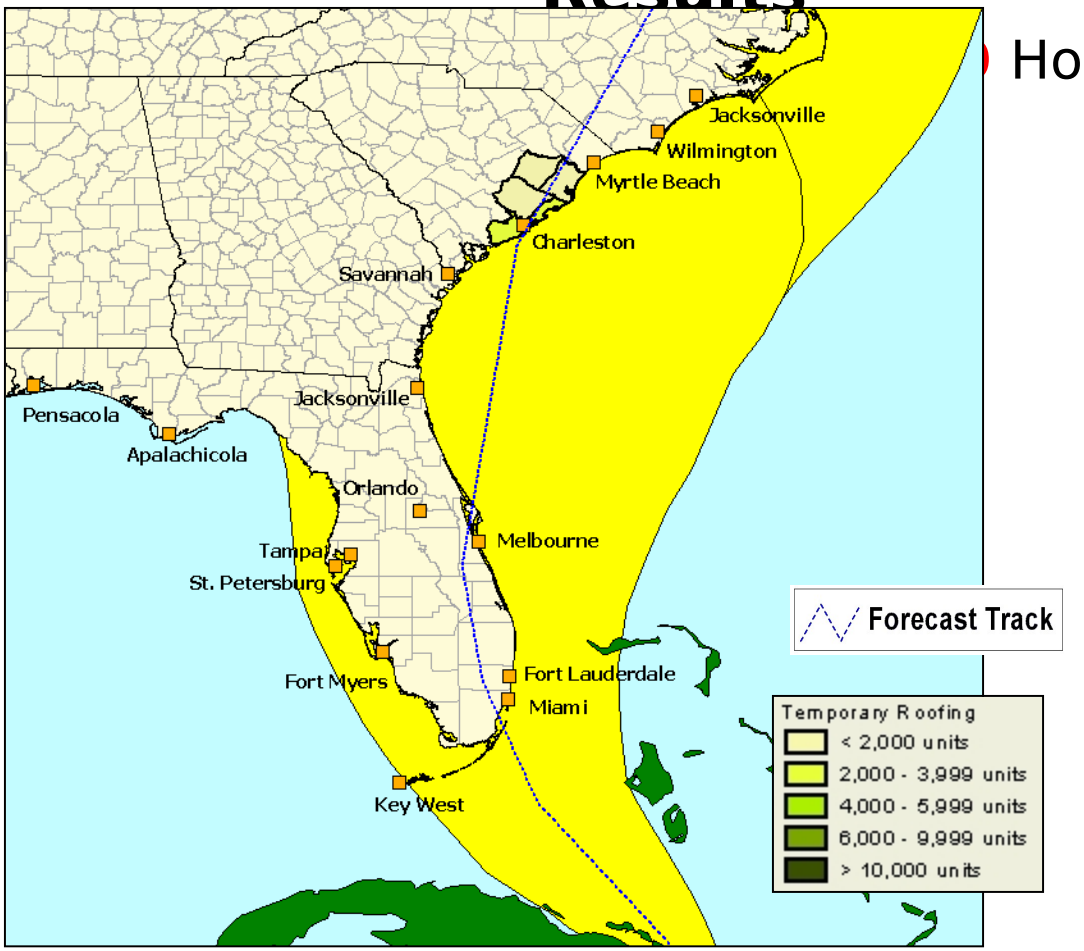
The number of households estimated to be within hurricane force winds comes from Census 2000 values adjusted to July 2005 values.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

Hurricane Ernesto Temporary Roofing Model Results

For Official Use Only!

) Hours



Post Landfall Temporary Roofing Model Results

South Carolina – 2,200

Model results per county on following page

This model is based on a Category 1 storm making landfall south of Miami, FL but no hurricane force winds until Charleston, SC.

Information provided on this page displays Ernesto making landfall south of Miami, FL but no hurricane force winds until Charleston, SC. These projections are based on information from the NHC ***(1700 EDT 08/28/2006)*** forecast. The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Roofing Model

Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS

Hurricane Ernesto Temporary Roofing Model Results

Landfall Expected In About **30** Hours

For Official Use Only!

STATE	HOUSE UNITS	COUNTY	HOUSE UNITS PER COUNTY
South Carolina			
		Berkeley	300
		Charleston	1,600
		Georgetown	200
		Williamsburg	100
TOTAL	2,200		

THIS IS AN EXPERIMENTAL MODEL !! THE VALUES ARE PRELIMINARY AND SHOULD BE CONSIDERED A GUIDE BUT NOT AN ABSOLUTE VALUE !!

The amount of temporary roofing that may be required is based on 2% of housing units damaged in CAT 1 wind areas. This only indicates possible need – not necessarily a mission to repair roofs.

Details about this model may be obtained at https://englink.usace.army.mil or contact ENGLink at 1-877-936-4546

US Army Corps of Engineers

Hurricane Ernesto Roofing Model

Generated By:
Siemsen, LRL 1700 EDT 08/28/2006

Sources:
HURREVAC
LRL-DEBRIS